Project No. W-____-____-

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER
TECHNICAL REVIEW FORM

FILTRATION
(N.J.A.C. 7:10-11.14)

_____	_____	_____
Water Purveyor	PWSID#	Municipality

Type of Media: _____ Filtration Loading Rate:

Effective Size of Media: _____ Filter Media Thickness:

Uniformity Coefficient: _____ Maximum Head Loss through Media:

	YES	NO	N/A
1. Is each filter provided with equipment to facilitate cleaning and placing or replacement of the filter media?	❒	❒	❒
2. For surface water, are automatic turbidity monitoring devices provided which will analyze and record the effluent turbidity at certain intervals?	❒	❒	❒
3. Are the filters protected from sanitary hazards (i.e. common walls between treated and untreated water, plumbing cross connections, etc.)?	❒	❒	❒
4. Are gravity or membrane filters provided for surface water treatment plants?	❒	❒	❒
5. Are pressure filters designed so that the loading rate does not exceed 3 gallons per minute per square foot with one filter out of service?	❒	❒	❒
6. Are gravity filters designed so that the loading rate does not exceed 5 gallons per minute per square foot with one filter out of service?	❒	❒	❒
7. Is the effective size no greater than 0.55 mm for rounded particles and 0.25 mm for angular particles (excluding anthracite particles in dual media filters which may be twice the effective sizes given)?	❒	❒	❒
8. Is the uniformity coefficient no greater than 1.6?	❒	❒	❒
9. Is the thickness of the filter media at least 24 inches?	❒	❒	❒
10. Is the maximum head loss through the filters no greater than 8 feet of water?	❒	❒	❒

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	YES	NO	N/A
11. Are regulating valves provided to control the flow of filtration rates?	❒	❒	❒
12. For dual media filters, is the sand bed a minimum of 12 inches thick?	❒	❒	❒
13. Is at least 12 inches of graded gravel placed over the underdrains ?	❒	❒	❒
14. Is filtered water used for backwashing?	❒	❒	❒
15. Is the backwash rate at least 15 gallons per minute per square foot?	❒	❒	❒
16. Does the backwash process allow for a minimum of 30% expansion of the filter media?	❒	❒	❒
17. Are reduced pressure zone backflow preventers provided to prevent back-siphonage of the filter surface wash water?	❒	❒	❒
18. Is backwash waters discharged in accordance with NJPDES requirements? NJPDES Permit Number:	❒	❒	❒
19. Are there any direct connections between backwash water lines and sanitary or storm sewer lines?	❒	❒	❒

***Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers. ***

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.

_____

Signature of Engineer Date N.J.P.E. #
Professional Engineer's Embossed Seal

Type or Print Name of Engineering Firm